# the Sands Along the Atlantic Coast.

Mr. Thomas A. Edison, the electrical wizard who has of late accomplished so many marvelous things, has perfected another remarkable invention that will finally leaked out, notwithstanding the hear, see or speak. efforts of those who are financially inprominent part, is a very simple conproduced in this country before, and about one-half that of the latter.

It had been believed for some time time ago invented a process for extractents were attracted into piles by means arated. When the matter of securing and she not blind. iron ore from the sea sands was presented to him a few weeks ago, he at or iron coated with sulphur, with sists of a V-shaped trough four feet long their lives from childhood. and a little more than two feet deep, curious thing remains to be told. with a slit one-sixteenth of an inch wide at the bottom. Under this, at a dis- from the residence of the girl, are two tance of five feet, and resting on the persons who appear to be affected ground, is a separator, the apex situated through her. One of them is a boy a little to one side of the trough above, about six years of age and the other a so that the sand falling straight will man of mature age. Since she has been strike on one incline and be forced in an stricken down these persons have felt opposite direction from that taken by the every change that has taken place in the ore, which, striking the other side, is sound lady's condition; have known it slid off into a hopper or receptacle. A instantly. She has had frequent conlittle less than half-way between the slit | vulsions, and whenever one of these fits in the trough or sand receptacle and the has seized her the man and the boy at ground, and of the same width, are a Gold Hill have in some way been made pair of large magnets, which receive aware of the fact. Also, whenever she their electrical energy either from jars was seized with a spell of vomiting or steam generator, just as is desired, according to the plant.

teenth of an inch in width. The mag- the young lady's condition. nets are provided with just enough power to deflect the magnetite or block The Stature of Different Races of Men. oxide of iron from a perpendicular fall and deposit it on the side of the separator opposite the sand, which, having no affinity for the magnets, falls direct to the ground, together with the titaniferous ore. It is then taken up, placed in sacks and shipped. The process is very

It may be asked what particular value is to be attached to this simple invention and where it is to be adopted. It is one of the most valuable of modern inventions, and is to be made use of right here on the Atlantic coast, for the present at least, and the Lord only knows where it may not be applied, for, according to Edison's statements, the ocean shores are simply covered with these iron deposits. Heretofore Swedish iron has never been made outside of that country, where these sand deposits exist, and where the crystals of may netite are very large. But here, right under our very nose, there are, it ap-pears, millions upon millions of tons of this sand containing incalculable amounts of the purest and best iron ore. for magnitite or block oxide of iron is the purest ore known, containing no phosphorus or sulphur. There are banks of this sand on Long Island alone twenty feet high where there are layers upon layers of the deposits, and these banks are from 100 to 150 feet in width. There is one strip of coast that has been prospected that is twenty miles long. Removing the white surface sand, there is usually found a deposit of black sand about ten inches in depth. About two inches below occurs another deposit. In these deposits is found the iron ore that is so valuable. It is estimated that about 40 per cent of the sand is composed of the two forms of iron oremagnetite and titaniferous-while of this from 18 to 20 per cent is pure mag-

Under the present working by those who are managing the machine in operation about 10 per cent is extracted, but Edison says he can get more than this if he should take hold of it personally. He gave the present operator a ten minutes' lesson one day, and that's Cor. Chicago Tribune.

## Predicting Her Own Afflictions.

There is in this city, says the Virfrom school, she was suddenly struck ignominious hands of the common exe-blind, and was led by the hand the re-

Edison's Latest-An Iron Bonanza in mainder of the way home. Four physicians, including Dr. Webber, county physician, have been attending the young lady since her illness, and have been unable to determine the cause of the malady which so suddenly seized her. After losing her sight she soon no doubt work great revolution in the lost her hearing, and then her vocal or-

Her disease appears to be of the naterested to keep it from the public. The ture of paralysis, and this had yesterday machine, wherein electricity plays the extended to her legs and the lower part trivance, but nevertheless it will be the had but little use of her hands, and then means of producing what has never been only under certain conditions. The most oughly, then stir in a pint of stoned that is iron of the same quality as the that all this time she has been able hot fat. As you take from the fat, drain best Swedish, and for a market price of to communicate with all about her on an old but clean napkin, dust with she has done in writing. In asking sauce. that there was in the seashore sands of her a question it was necessary to do Long Island and along the Atlantic so in writing, her hand being laid on that merous inquiries, the Poultry Yard gives Coast indications of magnetite iron, and of the questioner during the time he was the following recipe for preserving eggs: examination proved that this was a fact, writing. This being done she at once To one pint of salt and one pint of lime but how to extract it from the sand was wrote an answer to the question, but add four gallons of boiling water. Slack the problem. Mr. Edison had some while doing so it was necessary for the the lime first in a small quantity of hot ing gold dust from washings by the use to lightly hold the top of the pencil with stone jars or any vessel that will not abof magnets, whereby the baser constitu- which she was writing. All this time sorb the liquid. Then, with a dish, her eyes were closed and her head restof three or four processes, and the gold ing on her pillow in such a position that Put the eggs in as soon as laid each day. and sand subsequently washed and sep- she could not have seen what was doing Keep covered in a cool place.

It appears that the young lady's is a peculiar organism-that she has long is easily killed when it first breaks once went to work and perfected a been a sort of psychological puzzle. process whereby with one exposure to Many instances might be given of this magnets the valuable ore should peculiarity, but they nearly all concern be separated from the "titanite," people well known here and who do not wish to have their names mentioned. which it was mingled, and at the same As to the character of these things, we time left free of the schist wherein it was may say that she in several instances lodged. To do this it became necessary felt impelled to go to persons who were to so gradute the electrical force that strangers to her and tell them things the true iron, having the greater attrac- that were for their good, and which tive force, should be drawn nearest the made their hair almost stand on end, for magnet, while magnetite, or sulphur-ore and sand, should fall in separate that she knew almost every action of piles. Mr. Edison's separator-forthus their lives. In speaking of some perit may comprehensively be called-con- sons she said she knew every action of

In Gold Hill, fully half a mile away (which spells were quite frequent) the fact was instantly known to the two per-The object, as I have above stated, is sons at Gold Hill. In order to prove to extract the magnetite iron ore from this, persons interested in this curious the sand and titaniferous ore. The business have made many quick trips sand is shoveled into the trough and, from Gold Hill to the Divide, carefully being dry, falls through the narrow slit noting the time, and always found that in a sheet four feet long and one six- the man and boy had exactly described

we concern ourselves not with the tallest or shortest men of each tribe, but with the ordinary or average-sized men be red with dead chinch-bugs. This is who may be taken as fair representatives of their whole tribe. The difference of general stature is well shown where a tall and a short people come together in one district. Thus, in Australia the average English colonist of five feet eight inches looks clear over the heads of the five feet four inch Chinese laborers. Still more in Sweden does the Swede of five feet seven inches tower ever the stunted Lapps, whose average measure is not much over five feet. Among the tallest of mankind are the Patagonians, who seemed a race of giants to the Europeans who first watched them striding along their cliffs draped in their skin cloaks; it was even declared that the heads of Magalhaens' men hardly reached the waist of the travelers find, on measuring them, that they really often reach six feet four inches, their mean height being about five feet eleven inches-three or four inches taller than average Englishmen. The shortest of mankind are the Bushmen and related tribes in South Africa, with an average height not far exceeding four feet six inches. A fair contrast between the tallest and shortest races of mankind may be seen in the Patagonian and Bushman, whose head only reaches to the former's breast. Thus the tallest race of men is less than one-fourth higher than the shortest, a fact which seems surprising to those not used to measurements. In general, the stature of the women of any race may be taken as about one-sixteenth less than that of the men. Thus, in England a man of five feet eight inches and a woman of five feet four inches look an ordinary well-matched couple.- E. B. Taylor, in Popular Science Monthly.

## Japanese and Chinese.

to the Boston Herald that his love of his to hit the heels, causing a disagreeable own country im els him to set forth "a all the instructions he had; so he is nat-nationality utterly distinct from that of work with knife and rasp than with urally working a little crude.—New York China." The principal reasons given buttress. by him for rejecting the theory that the Japanese are of Chinese origin are that take the cutting pliers and nip the hoof A Psychological Wonder-A Young Lady the customs of the two people are gen- off from quarters to toe. This insures erally different; that the former are far the removal of the stubs of nails, and superior to the latter in intellectual pro-gress; that their earliest written lan- soon ready. Practice cold fitting alginia City Enterprise, a young lady guages are dissimilar, and that history though I do not think a thick-shelled whose case is not only the most dis- indicates the descent of the Japanese foot is injured by touching it with a redtressing imaginable, but which also is from the inhabitants of ancient Babylon. hot shoe that was previously fitted. A most curious and a puzzle for physi- Kurino admits, however, that the an- thin-shelled foot I never press with a cians and all who are acquainted with cient history of Japan is too fragmen- hot shoe. I was taught to weld toeher condition and the peculiar circum- tary and untrustworthy to be of much calks on shoes first, and heel up afterstances attendant upon and connected value. That there was an invasion ward, but I practiced heeling shoe first, therewith. The young lady is a Miss about 650 years before Christ is certain, and put on the toe-calk when ready to Mary Kenney, aged about 18 years, who but he contends that it was not from use the shoe. If you toe last there will resides on the Divide. Previous to her China. He takes pride in the fact that be heat enough in the shoe after we'd-illness she was a pupil in Prof. Flint's the Japanese, unlike other Asiatics, do ing the calk to fit the shoe. I let the school, where she was distinguished for not treat women as inferiors; and he heels, which are nearly cold, drop on her close application to her studies and claims that hari-kari, or the execution the wall of the foot and hold the toe, her quiet and ladylike deportment. She of the death penalty upon one's self, is which is red-hot, an inch away from the was ambitious to become a teacher, and studied very hard in order to be able to pass an examination. Some six weeks ago Miss Kenney told her mother and ago Miss Kenney told her mother and ago mass an examination. Some six weeks common, ignoble suicide; it was, on the common, ignoble suicide; it was, on the common, ignoble suicide; it was, on the common ago mass an examination. Some six weeks common, ignoble suicide; it was, on the common ago mass kenney told her mother and contrary, a public act, attended with a shoe red-hot after the foot is prepared as her common ago mass an examination. others that a great calamity was soon to befall her: that she would be stricken punishment intended for the privileged for an instant with the hot shoe. But all blind, deaf and dumb. In making this class. The high privilege, hari-kari, announcement she was much distressed was granted by the code of honor only and wept bitterly. It was in vain that when a military retainer was guilty of her friends tried to comfort her; she some high political offence not unworthy said it was a thing that must come. A of his rank, in order to save him from few days later, while on her way home the infamy of being abandoned to the

## HOME AND FARM.

-Never feed decayed roots of any kind to cows giving milk. One decayed turnip fed to a cow would affect the milk of fifty cows if mixed together.

-When washing fine laces do not use starch at all; in the last water in which iron trade. The matter has up to the gans became paralyzed. For several they are rinsed put a little fine white present been kept very quiet, but it has days past she has been unable either to sugar, dissolve it thoroughly, and the result will be pleasing.

-Cherry Fritters .- Make a batter of a pint of milk, four beaten eggs, a pinch of salt, two even teaspoonfuls of bakingof her body. For some days she has powder and enough flour to make a little stiffer than pan-cake batter. Beat thorcurious feature of her case, however, is cherries and drop by the spoonful into though bereft of all her senses. This powdered sugar and season with liquid

-Preserving Eggs.-In answer to nuquestioner to place his hand on hers or water. When cold put this solution in carefully let down the fresh eggs into it.

-The 'most troublesome summer weed upon our gardens is purslane; it ground, but once it gets rooted it will grow just about as well with its roots in It was the heartfelt prayer of the dying the air as any other way, and will blossom and ripen seed after it has been hoed up and turned with roots upward. for she expired two hours before the The only way to get rid of it is to cart it expected one arrived. The first intimaoff and bury it in a hole. Hogsand hens tion that many of the friends of the eat it greedily, but they do not destroy | young lady had heard of her marriage all the seeds .- New England Farmer.

-A writer in The Rural New Yorker speaks thus of sweet-corn breeding and both the marriage and funeral notices distribution: "At the end of six years I appear .- San Francisco Call. could rely upon three or four ears to a stalk. When this improved corn was distributed, however, no care was taken in the selection of the seed by those into whose hands it fell, and, in consequence, it gradually deteriorated. Let it be understood that such corn can not be long grown without careful selection of seed and good cultivation. Improvements in corn made by selection can only be maintained by selection; and the same arose and said: "Ah! brethren, I remark will apply to some other things as well as to corn."

-A writer in the Kansas Farmer tells bugs: "When the bugs came into the cornfield from the wheat they plowed three deep trenches about four feet apart and started a horse with a log in these trenches. By having three the last one a little you may look over it altogether. would catch what would get through the first. This was kept up with vigilance. If it had been started as soon as the bugs began to move they could have all a cended into a higher atmosphere .been taken, but about fifty rows in one Helps. place had been covered before anything was done. To save these they took a caldron kettle, a load of wood and two barrels of water. By having a teakettle to set on the water to bring to boil each pailful they could keep at work, pouring In comparing races as to their stature, with a pint cup the water on the stalks covered. The scalding kills effectually, so that in some places the ground would

## A Horseshoer's Experience.

Nipe persons out of ten will say that corns in horses' feet are caused by bad shoeing. My experience will justify me one year. in saying that nine-tenths of the corns are caused by the owners of horses neglecting to get them shod as often as they ought. We are nearly all agreed that horses should be shod as often as once in every four to seven weeks, according to circumstances. Now, a great many horse owners, particularly farmers, will get a team shod and, unless the horse becomes lame, will permit the shoes to remain on till they grow off.

If the horse has a round foot, and the shoe was fitted closely all around, in first Patagonian they met. Modern four or five weeks the shoe will have been carried forward by the growth of hoof, so that one or both of the heels will be off the wall, and in a short time corns will be produced. Now, if the owner would take his horse to the shop on some fixed date every month, instead of leaving the shoes on from seven to seventy weeks, horses would have fewer corns. In shoeing I prefer a wide heel, and mule the heels of the forward shoes, whether they have corns or not, on horses that have flat feet.

For interfering, level the foot and fit the shoe all around close. Then mule the inside heel slightly. In winter it is a good plan to turn the outside heelcalk, as it keeps the foot out of the trough of the road.

For over-reaching, I have the best success shoeing with long shoes all around. Let the heels of the forward shoes stick out an inch and the hind shoes three-quarters of an inch. As the forward foot raises, the long shoe will raise enough so the hind foot will pass under, while with a short shoe the shoe S. Kurino, a Japanese student, writes will raise just enough for the hind shoe clicking. I can do better and quicker

> If the foot is grown out very long I the advantage they claim is an equal bearing and that the shoe will be less liable to come off. Now, I can with knife and rasp get as good a bearing, and with a good nail fasten the shoe so that it will stay longer than it ought .-J. W. Nichols, in "B'acksmith and BACON-Clear Rib...... 956
> Wheeleight"

## Accidental Death of a Young Bride.

One of the saddest tragedies imaginable in real life transpired in this city a few days ago. A beautiful girl, by name Kitturah J. Horn, had for some time been engaged to William F. Oliver, a young man well known in San Francisco. For reasons best known to the contracting parties it was deemed advisable to have a quiet wedding at the residence of he bride's parents, and subsequently to give a general reception to their friends by way of a surprise. The happy day arrived, and the ceremony was none the less solemn because performed private-ly. This was on the 9th of June, and it

was arranged that the reception should take place this week. Invitation-lists were made out and a pleasant time anticipated. In the fore part of last week the young wife visited her husband at his office down town, and after remaining some time together they started to descend the steep stairs that lead to the ground floor. As Mrs. Oliver reached the top of the flight she entangled the heel of her shoe in her skirt, and, losing her balance, fell heavily, and rolled down the stairs until caught by her husband, who had preceded her a short dis tance. Although severely shocked by the fall, she was enabled to reach home with her husband's assistance. Symptoms of serious internal injuries soon made their appearance, and the unfortunate lady sank, until, on Sunday, every hope was given up and her favorite sister was summoned from Monterey girl that she might die in her sister's arms, but her prayers were not answered, or death was conveyed through the medium of Tuesday's papers, wherein

-- A correspondent writing from Charlottesville, Va, to the Richmond Religious Herald relates that in a certain ecclesiastical "court" the question of dancing was discussed warmly and at length. Finally it was proposed that the square dance be sanctioned and the round dance be forbidden. At this juncture a member of the convocation mightily fear that if we authoritatively permit the square dance that some peo ple may soon pinch off the corners and how a neighbor exterminated chinch- make it the round dance." The proposed compromise was not carried.

> -Infinite toil would not enable you to sweep away a mist, but by ascending So it is with our moral improvement. We wrestle fiercely with a vicious habit, which could have no hold upon us if we

> -The best dowry to advance the marriage of a young lady is when she has in her countenance mildness, in her speech wisdom, in her behavior modesty, and her life virtues.

-He who is great in his own estimation is like a man standing on a mountain; all men seem little to him from above, and he, Heaven knows, looks little from below .- Shakespeare.

-Some one figured up that the barb wire monopolists made a clean profit of \$5,000,000 out of Minnesota farmers in

-Southern roads are in a better condition and are earning more money than at any time since the war.

-A clergyman should not be a timeserver, although he is always looking after sinecures.

-To live without a purpose is to lead a restless, unhappy life.

## [Barnesville (Ga.) News.] Militons in It.

For the past twelve months I have been suffering with inflammatory rheumatism, often being confined to bed for several days. I tried several physicians, but they failed to relieve me. About seven weeks ago a friend who had suffered with the same disease, recommended me to try St. Jacobs Oil. I at once procured a half dozen bottles, which I have used, and find that I am improving all the time. It relieves me at once when I am suffering terrible pain, and prevents me from spending many sleepless nights. I take great pleasure in recommending it to those who are suffering with rheumatism and similar complaints, as the best remedy that can be had. Nothing has done me so much good, and as it only costs fifty cents a bottle, all can try it.

J. D. ALEXANDER, Editor " News."

## THE MARKETS.

Ш	
	NEW YORK, July 12, 1881.
	CATTIE Vatire Stores COTS G 10 75
9	
	COTTON-Midding @ 11%
3	FLOUR-Good to Choice 5 30 @ 6 75
	WHEAT-No. 2 Red 1 26% @ 1 26%
	No. 2 Spring 1 20 @ 1 263;
	CORN-No. 2
	OATS-Western Mixed 42 6 423
	Third Considered Many 17 00 to 17 10
	PORK-Standard Mess 17 00 @ 17 50
	ST. LOUIS.
2	COTTON-Middling @ 10%
	BEEVES-Choice 5 00 @ 6 15
7	Fair to Good 3 75 @ 5 50
9	
ı	Native Cows 3 10 @ 4 00
Н	Texas Steers 4 00 @ 5 20
	HOGS-Common to Select 5 00 @ 6 40
	SHEEP-Fair to Choice 3 25 @ 4 25
	FLOUR-AXX to Choice 5 00 @ 6 00
	PLOCE-AXA to Choice 5 to 6 600
3	WHEAT-No. 2 Winter 1 14%@ 1 15
9	No.3 " 1 05 @ 1 08%
Я	CORN-No. 2 Mixed 44 @ 45
Н	OA   S-No. 2 37 @ 37%
1	RYE No. 2 95 @ 96
d	
31	TOBACCO-Dark Lugs 3 75 @ 4 00
Н	Med um Dark Leaf 6 00 @ 7 00
1	HAY-Choice Tamothy 15 00 @ 16 00
Н	BUTTER-Choice Dairy 15 @ 17
9	EGGS-Choice ; @ 8
1	
1	
1	BACON-Clear Rib 84 6 9
ű	LARD-Prime Steam 11 @ 114
4	WOOL-Tub-washed, medium 35 @ 37
1	Unwashed 22 2 23
3	
J	CHICAGO.
1	CATTLE-Native steers 5 00 @ 6 25
4	HOGS-Good to choice 5 50 @ 6 40
1	SHEEP-Good to choice 4 50 @ 5 00
4	FLOUR-Winter 5 (0) @ 6 25
ą	Spring 4 (0 @ 5 50
4	WITDATE No A Pad
3	WHEAT-No. 2 Red 1 09 60 1 10
1	No 2 Spring 1 08 @ 1 09
1	CORN-No.2 46 @ 461
đ	OATS-No.2 38 @ 39
I	RYE 95 6 965
ĵ	PORK-New Mess 16 50 @ 17 25
1	PORK-New Mess 16 50 6 17 25 KANSAS CITY.
0	AANSAS CITI.
1	CATTLE-Native Steers 5 70 @ 6 30
1	Native Cows 2 50 6 3 50
g	HOGS-Sales at 5 60 @ 6 40
1	WHEAT-No. 2 98 20 99
1	No.3 91 @ 914
ŧ	
J	CORN-No. 2 Mixed 39 @ 39 -
I	OATS-No. 2
1	NEW ORLEANS.
I	FLOUR-High Grades 5 50 @ 6 50
į	
ı	CORN-White 61 @ 62
i	OATS-Choice 42 @ 44
ı	HAY-Choice 18 00 @ 20 00
1	PORK-Mess 17 50 @ 18 00
4	name of any

THE Norristown Herald defines a city beer garden as—Two trees, a 7x9 flower bed, seventeen benches and six waiters. In a majority of cases trees and flower beds are dispensed with.

A World of Good. One of the most popular medicines now before the American public, is Hop Bitters. You see it everywhere. People take it with good effect. It builds them up. It is not as pleasant to the taste as some other Bitters as it is not a whisky drink. It is more like the old fashioned bone set ten that has done a world of good. If you don't feel just right, try Hop Bitters.—Nanda News.

A SUNDAY-SCHOOL picnic manager ex-plained that he did not make the lemonade sour because the children had milk for breakfast, and he was afraid to make them

Kidney-Wort is a remedy which removes foul humors from the blood, and creates healthy action in every organ. Torpid kidneys and liver lead to gravel, diabetes, constipation, piles and rheumatism. Kidney-Wort is the surest and safest remedy to use.

—Rocky Mountain News.

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restion.

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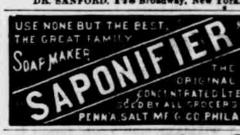
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